

AMENDMENT TO THE CLAIMS

Listing of Claims:

1. (Previously Presented) A base station, which communicates with a radio terminal, comprising:

an adaptive antenna;

a receiving condition acquisition portion for acquiring a signal from the radio terminal concerning a quality of reception of said radio terminal; and

a directivity control portion for controlling the directivity of said adaptive antenna in response to the quality of reception of said radio terminal.

2. (Previously Presented) The base station according to claim 1, wherein said directivity control portion sets the directivity of said adaptive antenna to be non-directional until a connection request is received from said radio terminal, and controls the directivity of said adaptive antenna at a direction in response to the quality of reception of said radio terminal after receiving the connection request from said radio terminal.

3. (Previously Presented) A base station, which communicates with a radio terminal, comprising:

an adaptive antenna;

a receiving condition acquisition portion for acquiring a signal from the radio terminal concerning a quality of reception of said radio terminal which depends on a transmission direction of a radio wave of the adaptive antenna, while changing the transmission direction of the radio wave of the adaptive antenna; and

a directivity control portion for controlling the directivity of said adaptive antenna at the transmission direction of the radio wave corresponding a signal concerning the good quality of reception of said radio terminal among the acquired signals.

4. (Previously Presented) A base station, which communicates with a radio terminal, comprising:

an adaptive antenna;

a receiving condition acquisition portion for acquiring data rate control from the radio terminal which depends on a transmission direction of a radio wave of the adaptive antenna, while changing the transmission direction of the radio wave of the adaptive antenna; and

a directivity control portion for controlling the directivity of said adaptive antenna at the transmission direction of the radio wave corresponding to a good data rate control.

5. (Newly Presented) The base station according to claim 1,

wherein the receiving condition acquisition portion acquires a signal from the radio terminal, which is used for changing a rate of data transmitted from the base station to the radio terminal.

and the directivity control portion controls the directivity of such adaptive antenna based upon the signal used for changing the rate of data acquired from the radio terminal.